

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

MICROSOFT CORPORATION

c/o Sharon Rydberg (8/2321, sharonr) One Microsoft Way
Redmond WA 98052-6399 USA

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year) 17 JUNE 2008 (17.06.2008)

Applicant's or agent's file reference

318634.02WO

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/US2008/052862

International filing date
(day/month/year)

01 FEBRUARY 2008 (01.02.2008)

Applicant

MICROSOFT CORPORATION

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70**For more detailed instructions, see the notes on the accompanying sheet.**

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:**
☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, within **20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5207



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume I/A, paragraph 296).

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examination Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are numbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same manners; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in canceling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1 - 10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceed 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rule 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

MICROSOFT CORPORATION

c/o Sharon Rydberg (8/2321, sharonr) One Microsoft Way
Redmond WA 98052-6399 USA

PCT

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **17 JUNE 2008 (17.06.2008)**

Applicant's or agent's file reference
318634.02WO

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/US2008/052862

International filing date (day/month/year)

01 FEBRUARY 2008 (01.02.2008)

Priority date(day/month/year)

01 FEBRUARY 2007 (01.02.2007)

International Patent Classification (IPC) or both national classification and IPC

G06F 17/28(2006.01)H, G06F 3/02(2006.01)H

Applicant

MICROSOFT CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-Daejeon, 139
Seonsa-ro, Seo-gu, Daejeon 302
-701, Republic of Korea
Facsimile No. 82-42-472-7140

Date of completion of this opinion

17 JUNE 2008 (17.06.2008)

Authorized officer

Kim, Sae Byul

Telephone No.82-42-481-8521



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/052862

Box No. 1 Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US2008/052862

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-20</u>	YES
	Claims	<u>NONE</u>	NO
Inventive step (IS)	Claims	<u>NONE</u>	YES
	Claims	<u>1-20</u>	NO
Industrial applicability (IA)	Claims	<u>1-20</u>	YES
	Claims	<u>NONE</u>	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2004-0039996A1

D2: US 5,535,119 A

D1 discloses a method and apparatus for displaying bi-directional text using a browser program on a computer coupled to drive a display and having an operating system such that the computer normally writes text to the display in a default language in a first, default direction

D2 discloses an information processing equipment providing easy operations of changing-over character species, in which characters can be entered without being conscious of the designation of a character mode.

(Continued on the supplemental box)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/052862

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

(Box No. V)

I. Novelty and Inventive step

Claim 1:

The subject matter of claim 1 relates to a method for creating and using phonetic schemes comprising the steps of: providing a phonetic scheme creation feature that is operable to allow a user to create a phonetic scheme, the phonetic scheme comprising one or more available phonetic character combinations in a source language and a resulting one or more native characters in a destination language for each of the phonetic character combinations and providing a phonetic input application that is operable to read the phonetic scheme to translate a respective character combination that is input by the user from the available phonetic character combinations in the source language into a corresponding one or more of the resulting native characters in the destination language.

D1, which is considered to be the most relevant state of the art, discloses a method for displaying bi-directional text using a computer coupled to drive a display and capable of writing text to the display in a first language and receiving string codes, each code corresponding to a character in a passage of text, at least a portion of which passage is in the second language displaying the characters corresponding to the codes in the window; and reversing the order of at least some of the displayed characters, responsive to an order switch invoked by a user of computer, so that the portion of the passage in the second language is displayed (corresponding to providing an input application of claim 1).

The difference between claim 1 and D1 is that D1 does not disclose providing a phonetic scheme creation feature. Thus, claim 1 is considered to be novel under PCT Article 33(2).

However, D2 discloses entering hiraganas and katakanas by a "romanji"(Roman Character) input system. As tabulated in all character pairs, all the hiraganas in the Japanese language can be transliterated into alphabetic characters. By utilizing this property, the romanji input system automatically converts at least one keyed alphabetic character into a hiragana character corresponding thereto. The romanji-kana conversion method is equivalent to providing a phonetic scheme creation feature of claim 1. It is obvious to a person skilled in the art to combine the features of D1 and D2, thereby arriving at claim 1. Therefore, claim 1 lacks an inventive step under PCT Article 33(3).

(Continued on the next page)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/052862

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

The previous page

Claims 2-8:

Claims 2-8, dependent on claim 1, define providing a suggestion list (claim 2); allowing a user to modify an existing phonetic scheme (claim 3); storing the phonetic scheme in a user-readable file (claim 4); an XML file format (claim 5); storing the phonetic scheme in a compiled phonetic scheme file (claim 6); allowing the phonetic scheme to easily be transferred to another computer (claim 7); allowing the user to select a desired phonetic scheme (claim 8).

Claims 2-8 are also considered to be novel under PCT Article 33(2) as they are dependent claims of claim 1.

However, all the features of claims 2-8 are normal options in the method for displaying bi-directional text using a computer of D1 and the romanji-kana conversion method of D2. Moreover modifying an existing phonetic scheme is a normal operation for defining the romanji-kana conversion method. It is obvious to a person skilled in the art to combine the features of D1 and D2, thereby arriving at each of the claims 2-8. Therefore, claims 2-8 lack an inventive step under PCT Article 33(3).

Claims 9 and 10:

Claims 9 and 10 relate to a computer-readable medium corresponding to the method of claim 1. The same reasoning applies to claims 9 and 10. Moreover, claim 10 defines storing the phonetic scheme in a format. The storing method is a normal option for defining the romanji-kana conversion methods of D2. Therefore, claims 9 and 10 are also considered to be novel under PCT Article 33(2) but lack an inventive step under PCT Article 33(3).

Claims 11-13:

The features of medium claims 11-13 essentially correspond to those of method claims 4-6. Therefore, claims 11-13 are also considered to be novel under PCT Article 33(2) but lack an inventive step under PCT Article 33(3).

(Continued on the next page)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/052862

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

(The previous page)

Claims 14-18:

Claims 14-18, dependent on claim 10, define allowing the user to select an option to digitally sign the phonetic scheme (claim 14); allowing the user to modify an existing phonetic scheme (claim 15); allowing the user to select a particular phonetic scheme (claim 16); creating a dynamic help file (claim 17); allowing the user to further customize a set of contents contained in the dynamic help file (claim 18).

Claims 14-18 are also considered to be novel under PCT Article 33(2) as they are dependent claims of claim 10.

However, all the features of claims 14-18 are normal options in the method for displaying bi-directional text using a computer of D1 and the romanji-kana conversion method of D2. Moreover modifying an existing phonetic scheme is a normal operation for defining the romanji-kana conversion method. It is obvious to a person skilled in the art to combine the features of D1 and D2, thereby arriving at each of the claims 14-18. Therefore, claims 14-18 lack an inventive step under PCT Article 33(3).

(Continued on the next page)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/052862

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

(The previous page)

Claim 19:

The subject matter of claim 19 relates to a method for creating and documenting phonetic schemes comprising the steps of: providing a phonetic scheme creation feature that is operable to allow a user to create a phonetic scheme, the phonetic scheme comprising one or more available phonetic character combinations in a source language and a resulting one or more native characters in a destination language for each of the phonetic character combinations and providing a dynamic help creation feature that is operable to create a dynamic help file to document the phonetic scheme created by the user.

D1, which is considered to be the most relevant state of the art, discloses a method for displaying bi-directional text using a computer coupled to drive a display and capable of writing text to the display in a first language and receiving string codes, each code corresponding to a character in a passage of text, at least a portion of which passage is in the second language displaying the characters corresponding to the codes in the window; and reversing the order of at least some of the displayed characters, responsive to an order switch invoked by a user of computer, so that the portion of the passage in the second language is displayed (corresponding to resulting one or more native characters in a destination language of claim 19).

The difference between claim 19 and D1 is that D1 does not disclose providing a phonetic scheme creation feature. Thus, claim 19 is considered to be novel under PCT Article 33(2).

However, D2 discloses entering hiraganas and katakanas by a "romanji"(Roman Character) input system. As tabulated in all character pairs, all the hiraganas in the Japanese language can be transliterated into alphabetic characters. By utilizing this property, the romanji input system automatically converts at least one keyed alphabetic character into a hiragana character corresponding thereto. The romanji-kana conversion method is equivalent to providing a phonetic scheme creation feature of claim 19. Moreover, providing a dynamic help creation feature is normal option for the normal character input system. It is obvious to a person skilled in the art to combine the features of D1 and D2, thereby arriving at claim 19. Therefore, claim 19 lacks an inventive step under PCT Article 33(3).

(Continued on the next page)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/052862

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

(The previous page)

Claim 20:

Claim 20 relates to a computer readable medium to perform the steps recited in claim 19. Therefore, claim 20 is novel (PCT Article 33(2)) but lacks an inventive step (PCT Article 33(3)) for the same reason as in claim 19.

II. Industrial applicability

The industrial applicability of claims 1-20 is self-evident in the sense of PCT Article 33(4) because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 318634.02WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2008/052862	International filing date (<i>day/month/year</i>) 01 FEBRUARY 2008 (01.02.2008)	(Earliest) Priority Date (<i>day/month/year</i>) 01 FEBRUARY 2007 (01.02.2007)
Applicant MICROSOFT CORPORATION		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 23
☒ as suggested by the applicant.
☐ because the applicant failed to suggest a figure.
☐ because this figure better characterizes the invention.
 b. ☐ none of the figure is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER*G06F 17/28(2006.01)i, G06F 3/02(2006.01)j*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC8: G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

cKIPASS(KIPO internal) *phonetic, character combination, source language, destination language, translate, instruction, help file"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004-0039996A1 (Moshe Flam) 26 February 2004 see abstract, paragraphs 25-45, and fig. 1	1-20
Y	US 5,535,119 A (Ito et al.) 9 July 1996 see abstract, column 6 line 58 ~ column 7 line 32, and fig. 50	1-20
A	US 6,377,966 B1 (Cooper et al.) 23 April 2002 see abstract, column 2 line 57 ~ column 3 line 11, and fig. 8A	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

17 JUNE 2008 (17.06.2008)

Date of mailing of the international search report

17 JUNE 2008 (17.06.2008)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Kim, Sac Byul

Telephone No. 82-42-481-8521



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/052862

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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